

Multiphase & multiscrub biotreatment VOC control technology: Operational report and test results on three 2007 projects

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Although the underlying design had been implemented in other industries for many years, the MultiPhase BioSystem for VOC control was introduced in 2008 to the wood products industry. The 2008 Wood Composites Symposium was one of the first opportunities to announce the results of our 2007 pilot testing for wood products. The MultiPhase BioSystem treats both the air and water phase VOC contaminants, including heavier constituents, and is able to handle dryers and other hot sources. The MultiPhase can handle particulate and fiber loads and utilizes proprietary media that never need replacing. A variant of the system called MultiScrub has been developed. In the past year four commercial systems have been built, three in the wood products industry that have 300,000/250,000/120,000 cfm capacity respectively. Two of these projects are in the Northwest. We will report on the evolution of the design, the MACT compliance test results, operational aspects, and current prospects.